

Project Progress Report

CLIENT: AEA/City of Akutan		PROJECT: Akutan Electrical Distribution Upgrade		DATE: December 23, 2010
PROJECT NO.: AEA-09-022 RQ3127		REPORT NO.: 3	REPORT PERIOD: 9/1/2010 through 10/15/2010	
DATE	PRIMARY TASK	AREA	PROGRESS	
ALL	RENUMBERING OF XFMRS & JBOXES	ALL	REMAINDER OF ENTRIES QUOTE XFMRS & JBOXES BY "NEW" NUMBER AND LETTER DESIGNATIONS UNLESS STATED AS "OLD". SEE "NEW" NOTATIONS ON ATTACHED DRAWINGS.	
9/1	New Xfmr Installation	C	Installed new Xfmr 14 during scheduled outage; hand-dug new service line & installed new Xfmr pad and vault for new Xfmr 8; hand-dug & prepared ground for new Xfmr 10	
9/2	New Xfmr Termination	C & D	Final termination completed for new Xfmrs 17, 16, 15 & 13; conduit loaded with streetlight wire for all streetlights beyond Water Treatment Plant.	
9/3	Pulling Streetlight Wire	A, B, C	Wires pulled for all remaining streetlights.	
9/4	Xfmr & Vault Change-Out	B	Old Xfmr 10 & vault changed out; prepared area to change out old Xfmr 8 during scheduled outage tomorrow; prepared new school Xfmr 12 for termination, ground loop & insulating dust caps.	
9/5	Trouble Shooting	B, C, D	Trouble call from another resident with power fluctuation in home; investigation revealed same problem with another newly installed Xfmr; took voltage readings at each newly installed dual-voltage Xfmr; found very low voltage at each one; unable to make adjustments due to NO TAPS; took voltage readings at powerhouse; consulted w/PM; rechecked all newly installed dual-voltage Xfmrs after powerhouse adjustment made; installed new pad and vault for new Xfmr 7.	
9/6	Trouble Shooting	B, D	Staged remaining new Xfmrs & vaults in preparation for change outs; prepared for termination; repeat trouble calls, again with very low voltage; removed newly installed Xfmrs in two applicable locations and replaced old Xfmrs (voltages increased but not to correct levels).	
9/7	Trouble Shooting	A, B	Changed out vault & old Xfmr 3; completed secondary termination at Xfmr 3; refed primary cable between new Xfmr 7 & new Xfmr 9, hooked in splice & 3-shot receptacle, replaced new Xfmr 9 back onto vault.	
9/8	Xfmr & Vault Change-Out	A	Changed out old vault & Xfmrs 6 and 2 with new; completed secondary terminations.	
<p>SPECIAL COMMENTS:</p> <p>9/1: Steps to hotel basement mandated relocation of new Xfmr and hand-digging of new service line.</p> <p>9/1: One Xfmr selected for installation from Client-owned inventory turned out to be leaking so was exchanged for another one from staging area; transportation of Xfmrs to and from staging area required "leap frog" method to protect homeowner's lawn.</p> <p>9/3: Rain & standing water forced delay to switch out old Xfmr 10 & vault; scheduled outage postponed.</p> <p>9/4: Trouble call from resident with power fluctuation problems; investigation revealed that low power problems resulted from newly installed Xfmr; unable to make adjustments due to NO TAPS on new Xfmrs.</p> <p>9/6: A resident with low voltage trouble call had furnace sensors burning out.</p> <p>9/7: Switching out old Xfmr 10 required leap frogging with plywood to preserve already rebuild boardwalk; trouble shooting measures taken succeeded in establishing adequate voltages.</p> <p>9/8: Very rocky ground required much hand digging.</p>				
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9/9	Xfmr & Vault Change-Out	A	Changed out old vault & Xfmr 4 and with new; removed old vault and Xfmr 3 & installed new vault in preparation for switch over.		
9/10	Replacing Pedestals	A & B	Replaced existing pedestals & vaults with flushmount handholds for peds. 6-2 & 8-2; removed pedestal 8-1, vault & old dead wires; rebuilt boardwalk near new Xfmr 5; hauled trash from areas of Xfms 2, 3, 4, 5 & pedestals 6-2, 8-1 & 8-2.		
9/11	Draining, Testing, Delivering Retired Xfms	NA	Drained 11 of 12 Xfms of oil; tested non-labelled Xfms for PCBs (total of 4 tested; all tested negative); transported (8) 55-gallon drums of old oil to Trident for incineration; transported 11 retired Xfms to Trident recycling facility.		
9/12	Community Involvement	NA	Participated in Akutan Founders Day celebrations.		
9/13	None - Weather	NA	Excessive rain with high winds.		
9/14	Xfmr Termination	A, B, C	Completed primary termination in new Xfms 4, 6, 7, 8, 9, 10 & 11.		
9/15	Xfmr & JBox Termination	A	Completed primary termination in Xfms 2, 3 & 5; partial primary termination in JBox A.		
9/16	JBox Termination	A	Completed primary termination in JBox A; partial primary termination in JBox B.		
9/17	JBox Grounding Loop & Termination	A & B	Completed primary termination in JBox B & JBox C; staged materials & tent for tomorrow's work at new JBox D.		
9/18	JBox Termination	C	Partial primary termination in new JBox D.		
9/19	JBox Termination	C	Completed primary termination in new JBox D; completed & parked primary termination in new Xfmr 12; staged materials & tent for tomorrow's work at new JBox E.		
9/20	JBox Termination	C	Completed primary termination in new JBox E.		
9/21	JBox Termination	C & D	Completed primary termination in new JBox F.		
9/22	Xfmr Termination & System Inspection	All	Completed final termination in Xfmr 1; completed outside labelling of all JBoxes & Xfms; completed inspection of entire system; scheduled switch from powerhouse to Hydro generation to allow for new system to come online.		
9/23	Equipment Maintenance	NA	Arranged for shop space to perform maintenance on excavator; changed excavator oil, oil filter & fuel filter.		
<p>SPECIAL COMMENTS:</p> <p>9/9: Had to replace old vault for Xfmr 4 until switch over due to size incompatibility between old Xfmr 4 & new vault.</p> <p>9/14 – 9/18: Splicing tent used due to heavy, driving rain; tie-downs & logs used due to high wind.</p> <p>9/22: Not able to switch to Hydro generation due to Hydro generator not working; scheduled large outage for 9/25.</p> <p>NOTE: Some pedestals were not where noted on drawings; used best judgement, per Errico, to install new flushmounted hand holds where appropriate and needed.</p>					
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9/24	Pedestal Installation & Powerhouse Bus Work	A, B, C	Replaced 2 existing pedestals & vaults with new flushmounted hand holds 6-3 & 9-1; replaced existing feed wires @ powerhouse with new feed wires to new Xfmr 1; checked voltage & rotation; brought new Xfmr 12 @ school online; checked voltage & rotation.		
9/25	System Change Over	All	Completed final Xfmr 3 changeout & turned on; completed hookup of new Xfmr 12 & turned on; proceeded through town turning on new Xfmr's; after all new Xfmr's turned on, turned Hydro generator off; checked voltages and load balances at each Xfmr.		
9/26	Draining, Testing, Delivering Retired Xfmr's	A & C	Staged retiring Xfmr's 3, 12 & 14 to area for draining; all 3 tested negative for PCBs; drained all oil in clean 55-gallon drums; hauled retired fiberglass pads to dump; loaded Xfmr's onto trailer to be ready to deliver to Trident's recycle facility.		
9/27	Draining, Testing, Delivering Retired Xfmr's	A, C, D	Delivered retired Xfmr's 3, 12 & 14 to Trident's recycle facility; delivered (7) 55-gallon drums of oil to Trident for incineration; removed & drained old Xfmr 1; oil tested negative for PCBs; delivered Xfmr for recycling; loaded (7) more 55-gallon drums of oil for delivery tomorrow.		
9/28	Delivering Tested Xfmr Oil	NA	Removed last existing Xfmr & staged for draining; drained oil which tested negative for PCBs; delivered (8) 55-gallon drums of oil to Trident for incineration; delivered last retired Xfmr for recycling; removed old wires & debris from powerhouse & hotel areas; filled in holes in same 2 areas; placed protective rocks around Xfmr 1 @ powerhouse; hauled trash to dump.		
9/29	Retirements	All	Removed old wires & elbows from all Xfmr's and installed & tightened final nuts & bolts to bolt all Xfmr's down to pads; dug out old JBoxes B & C; hauled all waste to dump; partially refilled holes.		
9/30	Finishing	All	Removed old Xfmr 16 & vault @ research complex; hauled 10 loads of dirt & filled holes from old JBoxes B & C and old Xfmr's & vaults @ school & research complex; rebuilt boardwalk near staging area; replaced existing pedestal @ City office with new flushmounted hand hold and completed grooming.		
10/1	Pedestal Installation & Engineer's Inspection	All	Replaced old pedestal @ 12-1-S3 with new flushmounted hand hold; collected trash from work areas and hauled to dump; escorted Project Engineer through system for inspection.		
10/2	New Xfmr Site Prep	D	Verified availability of materials to accomplish Project Engineer's requested change at Xfmr 3; loaded & staged new 3-phase Xfmr 14 @ Hydro; loaded & staged loads of gravel @ Hydro for vault base; staged excavator @ Hydro; worked on as-built notes.		
10/3	Xfmr Installation	D	Excavated & compacted ground, added loads of gravel & recompacted, and installed new 3-phase Xfmr 14 & vault @ Hydro; bolted down and partially terminated new Xfmr 14; rebuilt last section of boardwalk; hauled trash & debris to dump; restaged excavator back to area of conex.		
SPECIAL COMMENTS:					
<p>9/25: Existing Xfmr at school was in such poor condition, it caught on fire as it was being disconnected. There were no injuries and fire was quickly exterminated. Examination revealed a very haphazard original installation.</p> <p>9/27: Existing JBox A turned out to be an oil switch instead of a JBox; drained oil, which tested negative for PCB's.</p> <p>9/28 – 10/4: Work slowed by inclement weather (strong wind, excessive rain, early snow & hail).</p>					
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10/4	Xfmr Termination & As-Built Prep	D	Completed termination & labelling in new Xfmr 14 @ Hydro; per Project Engineer's request, changed out secondary lugs in new Xfmr 3 @ store; inspected entire boardwalk system & replaced all boards suspected of damage resulting from project activities; investigated & documented previously unknown secondary distribution from new Xfmr 9.	
10/5	Testing Prep & As-Built Prep	B	Prepared tools, equipment & materials for streetlight work; investigated & documented previously unknown secondary distribution from new Xfmrs 6, 7, 8 & 9; arranged for Hydro generator to be brought online to check rotation & voltages.	
10/6	Streetlight Wire & UGuard Installation	A	Replaced existing wire with new #10 wire & U-guard on some streetlight poles.	
10/7	Old Streetlight Removal	A & B	Replaced existing wire with new #10 wire & U-guard on 14 more streetlight poles; removed old street lights from these 14 poles (in preparation for installation of new street lights); hauled refuse to dump.	
10/8	Old Streetlight Removal	C	Removed more old street lights & wire (in preparation for installation of new street lights); installed new #10 wire & U-guard; inventoried all streetlight poles; hauled refuse to dump.	
10/9	Old Streetlight Removal	C & D	Removed last of 37 old street lights & wire (in preparation for installation of new street lights); installed new #10 wire & U-guard.	
10/10	Standby	NA	Placed equipment locks onto all 17 Xfmrs.	
10/11	Remove Streetlight Pole	B	Removed streetlight pole located near new Xfmr 7.	
10/12	Standby	NA	Waiting for materials to arrive.	
10/13	Receive Materials	NA	Received 11 of 37 new streetlight arms & hardware via USPS.	
10/14	Refinement of New System	All	Rebalanced some load on new system; removed and replaced equipment locks on Xfmrs 1, 3, 8, 12 & 14 to collect specification data; installed parking stands @ JBox D; packed tools for demob.	
10/15	Standby	NA	Waiting for materials to arrive.	
SPECIAL COMMENTS:				
<p>10/7 – 10/9: Old street lights & streetlight arms removed in preparation for installation of new street lights & arms, accomplished under separate contract and immediately at conclusion of this contract.</p> <p>10/8: Inventory of existing streetlights totalled 40 poles, exceeding this contract by 3.</p> <p>10/11: Removal was requested by City. Streetlight pole was blocking handicap access to restaurant and was deemed unwanted by City (see photo).</p>				
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